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Substitute for form PTO/SB/8A INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	09/921,645
		Filing Date	August 3, 2001
		First Named Inventor	Meade, Thomas
		Group Art Unit	1637
		Examiner Name	Strzalecka, Teresa, Ph.D.
		Attorney Docket Number	A-64411-2/RFT/RMS/RMK
Sheet	1	of	11

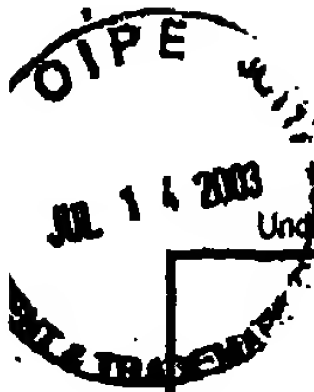
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U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	U.S. Patent Document Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A0	4,704,402	11/1987	Bowers et al.	duplicate
TS	A1	4,707,352	11/1987	Stavrianopoulos	
	A2	4,707,440	11/1987	Stavrianopoulos	
	A3	4,711,955	12/1987	Ward et al.	
TS	A4	4,755,458	7/1988	Rabbani et al.	
	A5	4,787,983	11/1988	MacGonnell	duplicate
TS	A6	4,840,893	8/1989	Hill et al.	
	A7	4,849,513	7/1989	Smith et al.	
	A8	4,868,103	9/1989	Stavrianopoulos et al.	
	A9	4,894,325	1/1990	Engelhardt et al.	
TS	A10	4,943,523	7/1990	Stavrianopoulos	
	A11	4,945,045	7/1990	Forrest et al.	duplicate
TS	A12	4,952,685	8/1990	Stavrianopoulos	
	A13	4,994,373	2/1991	Stavrianopoulos	
	A14	5,002,885	3/1991	Stavrianopoulos	
	A15	5,013,831	5/1991	Stavrianopoulos	
TS	A16	5,082,830	1/1992	Brakel et al.	
	A17	5,089,112	2/1992	Skothelm et al.	duplicate
TS	A18	5,175,269	12/1992	Stavrianopoulos	
	A19	5,180,968	1/1993	Bruckenstein et al.	duplicate
TS	A20	5,241,060	8/1993	Engelhardt et al.	
	A21	5,242,828	9/1993	Bergstrom et al.	
	A22	5,278,043	1/1995	Bannwarth et al.	
	A23	5,312,527	5/1994	Mikkelsen et al.	
TS	A24	5,328,824	7/1994	Ward et al.	
	A25	5,350,786	10/1994	Heiler et al.	duplicate
	A26	5,391,272	2/1995	O'Daly et al.	duplicate
TS	A27	5,403,451	4/1995	Rivello et al.	
TS	A28	5,436,161	7/1995	Bergstrom et al.	
Examiner Signature	Teresa Strzalecka		Date Considered	11/3/03	

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		Examiner Name	Strzelecka, Teresa, Ph.D.		
Sheet	2	of	11	Attorney Docket Number	A-84411-2/RFT/RMS/RMK

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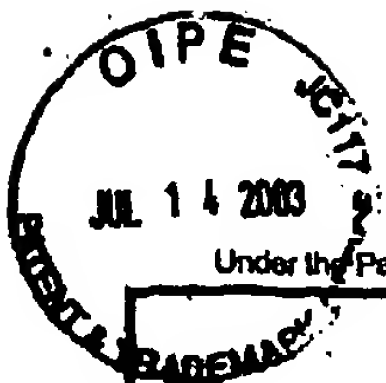
U.S. PATENT DOCUMENTS					
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	A29	5,443,781	8/1995	Willner et al.	duplicate
TS	A30	5,449,787	9/1995	Ward et al.	
	A31	5,472,881	12/1995	Beebe et al.	
	A32	5,476,928	12/1995	Ward et al.	
	A33	5,552,270	9/1996	Khrapko et al.	
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	A38	5,595,908	1/1997	Fawcett et al.	
	A39	5,601,982	2/1997	Sargent et al.	
TS	A40	5,620,850	4/1997	Bamdad et al.	
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	A42	5,700,687	12/1997	Marble et al.	duplicate
TS	A43	5,705,348	1/1998	Meade et al.	
	A44	5,741,700	4/1998	Ershov et al.	
	A45	5,756,050	5/1998	Ershov et al.	
	A46	5,770,369	6/1998	Meade et al.	
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	A52	5,849,486	12/1998	Heller et al.	
	A53	5,851,772	12/1998	Mirzabekov et al.	
	A54	5,952,172	9/1999	Meade et al.	
	A55	6,087,100	7/2000	Meade et al.	
TS	A56	6,096,825	8/2000	Garnier	

Examiner Signature	Teresa Strzelecka	Date Considered	11/3/03
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Sheet **3** of **11**

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TS	A57	6,177,250	1/2001	Meade et al.	
	A58	6,180,352	1/2001	Meade et al.	
	A59	6,200,761	3/2001	Meade et al.	
	A60	6,207,369 B1	3/1995	Wohlstadter et al.	
TS	A61	6,238,870	5/2001	Meade et al.	

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Examiner Initials*	Cite No.	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
TS	B1✓	EP 0 234 938 A2	2/1987	Cranfield Inst. of Tech.		
	B2✓	EP 0 229 943 B1	7/1987	Molecular Biosystems Inc.		
	B3✓	EP 0 599 337 A2	1/1994	Canon Kabushiki Kaisha		
	B4✓	EP 0 063 879 A2	11/1982	Yale University		
	B5✓	EP 0 515 615	9/1996	Boehringer Mannheim		
	B6✓	CA 2 090 904 A1	8/1993	F. Hoffman-La Roche		
	B7✓	JP 238,166 A	1988	Mitsubishi Corp.	Abstract	
	B8✓	JP 6-41183 A2	1994	Mitsubishi Corp.	Abstract	
	B9	WO 88/05815 A1	3/1985	Genentics International Inc.		
	B10✓	WO 90/05732 A1	5/1990	Columbia Univ.		
	B11✓	WO 92/10757 A1	6/1992	Boehringer Mannheim		
	B12✓	WO 93/22678 A2	11/1993	Mass Inst. of Tech.		
	B13✓	WO 93/10267 A1	5/1993	IGEN, Inc.		
	B14✓	WO 94/22889 A1	10/1994	Cis Bio International	In French	
	B15✓	WO 95/15971 A2	6/1995	Calif. Inst. of Technology	Abstract only	
	B16✓	WO 96/40712 A1	12/1996	Calif. Inst. of Technology		
	B17✓	WO 97/01646 A2	1/1997	Univ. of N. Carolina		
	B18✓	WO 97/44851 A1	11/1997	AU Membrane and Biotech.		
	B19✓	WO 97/27329 A1	7/1997	Univ. of Chicago		
TS	B20✓	WO 98/27229 A1	8/1998	Univ. of Chicago		

Examiner Signature

Teresa Strzelecka

Date Considered

11/3/03

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Sheet

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TS	B21	WO 98/28444 A2	7/1998	Univ. of Chicago		
	B22	WO 98/35232 A2	8/1998	Univ. of N. Carolina		
	B23	WO 99/67425 A2	12/1999	Clinical Micro Systems		
	B24	WO 99/14596 A1	3/1999	AB Sangtec Medical		
	B25	WO 99/37819 A2	7/1999	Clinical Micro Systems		
	B26	EP 0 589 867 B1	4/1996	Pharmacia Biosensor		
TS	B27	WO 90/05303 A1	5/1990	Pharmacia AB		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T*
TS	C1	AIZAWA, et al., "Integrated Molecular Systems for Biosensors," Sensors and Actuators B Chemical, B 24-25:1-5 (1995)	
	C2	ALBERS, et al., "Design of Novel Molecular Wires for Realizing Long-Distance Electron Transfer," Biochemistry and Biophysics, 42:25-33 (1997).	
	C3	ALLEMAN, K.S., et al., "Electrochemical Rectification at a Monolayer-Modified Electrode," J. Phys. Chem., 100:17050-17058 (1996).	
	C4	ARKIN, et al., "Evidence for Photoelectron Transfer Through DNA Intercalation," J. Inorganic Biochem. Abstracts, 6th International Conference on Bioinorganic Chemistry, 51(1) & (2):526 (1993).	
	C5	BARISCI, et al., "Conducting Polymer Sensors," TRIP, 4(9):307-311 (1996)	
	C6	BAUM, R. M., "Views on Biological, Long-Range Electron Transfer Stir Debate," C&EN, pp 20-23 (1993).	
	C7	BECHTOLD, R., et al., "Ruthenium-Modified Horse Heart Cytochrome c: Effect of pH and Ligation on the Rate of Intramolecular Electron Transfer between Ruthenium(II) and Heme(III)," J. Phys. Chem., 90(16):3800-3804 (1986).	
	C8	BEATTIE, et al., "Genosensor Technology," Clinical Chemistry, 39(4): 719-722 (1993).	
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	C10	Biotechnology and Genetics: Genetic Screening Integrated Circuit," The Economist (February 25-March 3, 1995).	
TS	C11	BLONDER, et al., "Three-dimensional Redox-Active layered Composites of Au-Au, Ag-Ag and Au-Ag Colloids," Chem. Commun. 1393-1394 (1998).	
	C12	BOGUSLAVSKY, L. et al., "Applications of redox polymers in biosensors," Solid State Ionics, 60:189-197 (1993).	
TS	C13	BAMDAD, C. "A DNA self-assembled monolayer for the specific attachment of unmodified double - or single stranded DNA," Biophysical Journal, 75:1997-2003 (1998). (1998).	

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Signature

Teresa Strzelecka

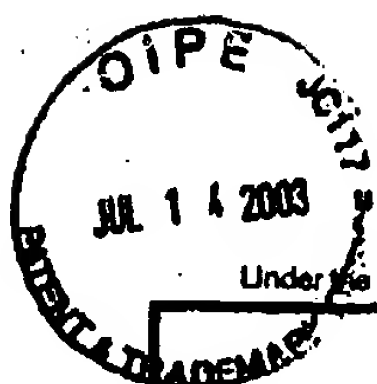
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TS	C14	BOWLER, B. E., et al., "Long-Range Electron Transfer in Donor (Spacer) Acceptor Molecules and Proteins," <i>Progress in Inorganic Chemistry: Bioinorganic Chemistry</i> , 38:259-322 (1990).	
	C15	BRUN, A. M., et al., "Photochemistry of Intercalated Quaternary Diazaaromatic Salts," <i>J. Am. Chem. Soc.</i> , 113:8153-8159 (1991).	
	C16	BUMM, et al., "Are Single Molecular Wires Conducting?," <i>Science</i> 271:1705-1707 (1996).	
	C17	CANTOR, C.R., et al., "Report on the Sequencing by Hybridization Workshop," <i>Genomics</i> , 13:1378-1383 (1992).	
	C18	CARR, et al., "Novel Electrochemical Sensors for Neutral Molecules," <i>Chem. Commun.</i> , 1649-1650 (1997).	
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	C21	CHIDSEY, et al., "Coadsorption of Ferrocene-Terminated and Unsubstituted Alkanethiols on Gold" <i>Electroactive Self-Assembled Monolayers</i> , <i>J. Am. Chem. Soc.</i> , 112:4301-4308 (1990).	
	C22	CHIDSEY, C.E.D., et al., "Free Energy and Temperature Dependence of Electron Transfer at the Metal Electrolyte Interface," <i>Science</i> , 251:919-922 (1991).	
	C23	CHRISSEY, et al., "Covalent attachment of synthetic DNA to self-assembled monolayer films," <i>Nucleic Acids Research</i> , 24(15):3031-3039 (1996).	
	C24	CLERY, "DNA Goes Electric," <i>Science</i> , 267:1270 (1995).	
	C25	Commerce Business Daily Issue of September 26, 1996 PSA#1688.	
	C26	DAVIS, L. M., et al., "Electron Donor Properties of the Antitumour Drug Amsacrine as Studied by Fluorescence Quenching of DNA-Bound	
	C27	DAVIS, L. M., et al., "Elements of biosensor construction," <i>Enzyme Microb. Technol.</i> 17:1030-1035 (1995).	
	C28	DEGANI et al., "Direct Electrical Communication between Chemically Modified Enzymes and Metal Electrodes. 2. Methods for Bonding Electron-Transfer Relays to Glucose Oxidase and D-Amino-Acid Oxidase," <i>J. Am. Chem. Soc.</i> 110:2615-2620 (1988).	
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	C31	DEINHAMMER, R.S., et al., "Electrochemical Oxidation of Amine-containing compounds: A Route to the Surface Modification of glassy carbon electrodes," <i>Langmuir</i> , 10:1306-1313 (1994).	
TS	C32	DREYER, G. B., et al., "Sequence-specific cleavage of single-stranded DNA: Oligodeoxynucleotide-EDTA/Fe(II)," <i>Proc. Natl. Acad. Sci. USA</i> , 82:968-972 (1985).	
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TS	C33 ✓	DROBYSHEV, A., et al., "Sequence Analysis by Hybridization with Oligonucleotide Microchip: Identification of β -thalassaemia Mutations," <i>Gene</i> , 188:45-52 (1997).	
	C34 ✓	DUBILEY, S., et al., "Fractionation, phosphorylation and ligation on Oligonucleotide Microchips to Enhance Sequencing by Hybridization," <i>Nucleic Acids Research</i> , 25(12):2259-2265 (1997).	
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		Filing Date	August 3, 2001		
		First Named Inventor	Meade, Thomas		
		Group Art Unit	1637		
		Examiner Name	Strzelecka, Teresa, Ph.D.		
Sheet	7	of	11	Attorney Docket Number	A-64411-2/RFT/RMS/RMK

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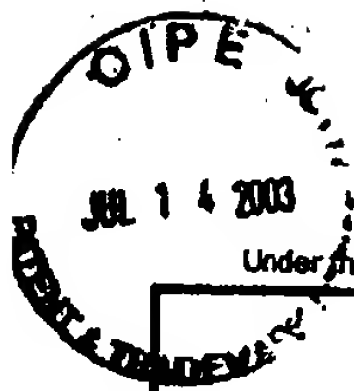
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		Examiner Name	Strzelecka, Teresa, Ph.D.		
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C102 ✓	SCHUMM, et al., "Iterative Divergent/Convergent Approach to Linear Conjugated Oligomers by Successive Doubling of the Molecular Length: A Rapid Route to a 128 D-Long Potential Molecular Wire," <i>Angew. Chem. Int. Ed. Engl.</i> , 33(11):1360-1363 (1994).	
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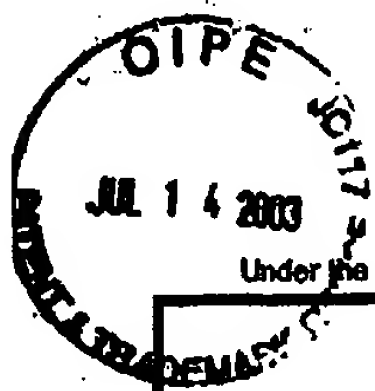
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		Application Number	09/921,645		
		Filing Date	August 3, 2001		
		First Named Inventor	Meade, Thomas		
		Group Art Unit	1837		
		Examiner Name	Strzelecka, Teresa, Ph.D.		
Sheet	11	of	11	Attorney Docket Number	A-64411-2/RFT/RMS/RMK

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	†
TS	C122 ✓	WEBER, et al., "Voltammetry of Redox-Active Groups Irreversibly Adsorbed onto Electrodes. Treatment Using the Marcus Relation between Rate and Overpotential," <i>Anal. Chem.</i> , 66:3164-3172 (1994).	
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